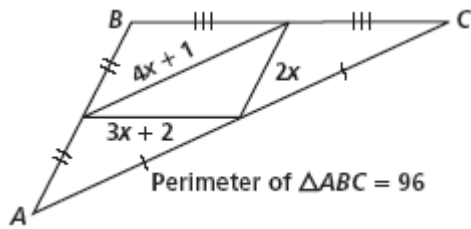
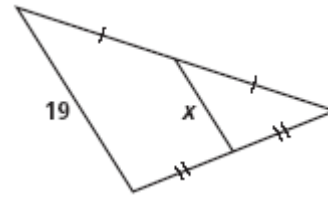


Find the value of x .

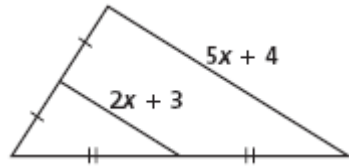
1.



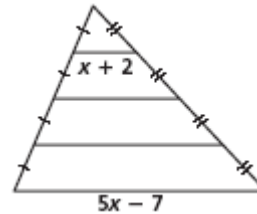
2.



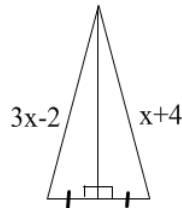
3.



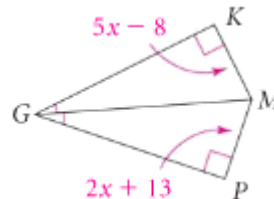
4.



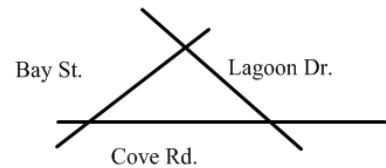
5.



6.



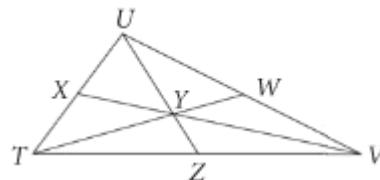
7. The city would like to place a statue equidistant from 3 straight roads which enclose a park (see right). How would they locate such a location using a point of concurrency?



8. Y is the centroid of TUV. If $TU=16$ and $TY= 18$.

a) Find TX

b) Find YW



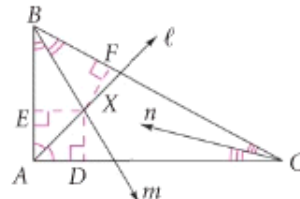
9. Point X is equidistant from _____.

a) each side of $\triangle ABC$

b) each vertex of $\triangle ABC$

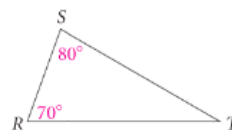
c) both a & b

d) none of these

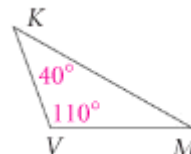


10. $\triangle XYZ$ has sides with length $XY=5$, $YZ = 10$, $XZ=14$. List the angles in order from smallest to largest.

11. List the angles and sides in order from smallest to largest.



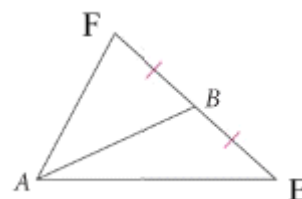
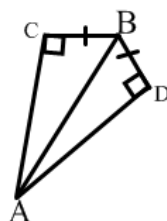
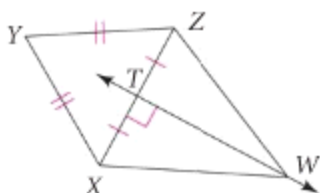
12. Name the shortest and longest sides of the triangle KVM.



13. We would like to make a triangular deck with 2 sides having measurements of 20 ft. and 12 ft. What are the possible values for the 3rd side of the triangle?

14. Is the given line a perpendicular bisector, median, angle bisector, or altitude?

a) WT is a _____ of $\triangle XWZ$ b) AB is a _____ of $\triangle CAD$ c) AB is a _____ of $\triangle FAE$



15. Find the center of the circle with vertices $A(1,1)$, $B(5,3)$, $C(5,1)$ that circumscribes $\triangle ABC$.

- Locate the circumcenter.
- Draw the circle that circumscribes $\triangle ABC$

16. Write the equation of the line from vertex A to the midpoint of BC for $\triangle ABC$ whose vertices are located at $A(0, -4)$, $B(2,0)$, $C(0,4)$.